

## NEW STATE RECORDS OF THE MAYFLY *LEPTOPHLEBIA BRADLEYI* NEEDHAM<sup>1</sup>

Brad C. Henry, Jr.,<sup>2</sup> Boris C. Kondratieff<sup>3</sup>

**ABSTRACT:** *Leptophlebia bradleyi* Needham is newly recorded from New York, Oklahoma, Texas, and Virginia. This species was previously known from only Alabama, Florida, Georgia, and Louisiana.

The original description of *Leptophlebia bradleyi* was based on male imagoes collected in the Okefenokee Swamp, Georgia (Needham, 1932). Traver (1935) transferred *L. bradleyi* to the genus *Paraleptophlebia*. Berner (1950) discussed this species and noted its uncertain generic placement. Berner (1975) reassigned *bradleyi* to *Leptophlebia* based on adult and nymphal characters and described the nymph and female imago. Edmunds et al. (1976) retained *bradleyi* in *Paraleptophlebia* but noted Berner's (1975) transfer. Berner (1975) summarized the characters for separating *L. bradleyi* from *Paraleptophlebia*.

The previous known range of *L. bradleyi* was the southeastern states of Alabama, Florida, Georgia, and Louisiana (Needham, 1932; Berner, 1977). Recently we examined field-collected, and reared imagoes of this species from Long Island, New York, south central Oklahoma, central Texas, and Virginia. These records represent significant extensions of the known range of *L. bradleyi* far to the northeast and west. Kondratieff and Voshell (1981) briefly discussed *L. bradleyi* in Virginia.

### Material Examined:

New York: Suffolk Co., Manorville, 12 April 1979, Darlene Massey, 5♂.

Oklahoma: Murray Co., Honey Cr. and I-35, 13 March 1981, B.C. Henry, 4♂.

Texas: Irion Co., W. Rocky Cr. at FM 853, 23 Jan. 1981, 5♂; 17 Dec. 1980, ♂ (reared); 18 Dec. 1980, 1 ♂ (reared); 23 Jan. 1981, 5 ♂, B.C. Henry. Travis Co., Barton Cr. at Bee Cave, 23 Dec. 1980, 1♂ (reared), 4♀ (2 reared), B.C. Henry.

Tom Green Co., Dov. Cr. on Tweedy Ranch 2 mi SW Knickerbocker, 19 Feb. 1981, 3♂, B.C. Henry. S. Concho R. at Christoval, 23 Dec. 1980, 11 ♂, Lynn McCutchen.

Virginia: Hanover Co., South Anna River overflow marsh, Co. Rt. 657, 21 March 1978, B.C. Kondratieff, 3♂.

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<sup>2</sup>Department of Biology, Angelo State Univ., San Angelo, Texas 76909. Present address: Department of Biology, Texas A & M Univ., College Sta., TX 77843

<sup>3</sup>Department of Entomology, Virginia Polytechnic Institute & State Univ., Blacksburg, VA 24061

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## LITERATURE CITED

- Berner, L. 1950. The mayflies of Florida. Univ. Fla. Press, Gainesville, Bio. Sci. Serv. 267 pp.
- Berner, L. 1975. The mayfly family Leptophlebiidae in the southeastern United States. Florida Entomol. 58: 137-156.
- Berner, L. 1977. Distributional patterns of southeastern mayflies (Ephemeroptera). Bull. Fla. State Mus., Biol. Sci. 22: 1-56.
- Edmunds, G.F., Jr., S.L. Jensen, and L. Berner. 1976. The mayflies of North and Central America. Univ. Minn. Press, Minneapolis. 330 pp.
- Kondratieff, B.C. and J.R. Voshell, Jr. 1981. Seasonal distribution of mayflies (Ephemeroptera) in two Piedmont rivers in Virginia. Entomol. News 92:189-195.
- Needham, J.G. 1932. Three new American mayflies. Can. Entomol. 64: 273-276.
- Traver, J.R. 1935. *In* J.G. Needham, J.R. Traver, and Y.C. Hsu. The biology of mayflies with a systematic account of North American species. Comstock, Ithaca. 759 pp.

## CHARLES P. ALEXANDER

One of the giants of taxonomic entomology, Dr. Charles P. Alexander, passed away on December 3, 1981. He was 92 years of age. Dr. Alexander was a retired professor of entomology at the University of Massachusetts at Amherst. He was even better known, worldwide, as an outstanding authority on crane fly (Tipulidae) systematics, having described and named over 10,000 species during his long career. His extensive collection has been transferred to the U.S. National Museum of Natural History in Washington, D.C.

Dr. Alexander was an almost life long member of the American Entomological Society and a frequent contributor of papers to both our Transactions and to Entomological News. Over his lifetime, he authored and published over 1000 papers containing the results of his extensive research.

He and his very supportive wife, Mabel, who passed away a little over two years ago, left a will which included bequests to over a dozen entomological societies and publications, including the American Entomological Society, to assist in the publication of the results of entomological research. Thus the influence of Dr. Alexander will live on for years to come, not only in his own published works, but in the published research of others.